10/657,157

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polymerizing on the member present in the gas-phase part of the reactor, and a
     continuous operation can be conducted over long. For example, acrylic
     acid was reacted with BuOH in the presence of p-toluenesulfonic acid and
     hydroquinone to give Bu acrylate.
                                THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                          7
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
                     CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4
L16 ANSWER 4 OF 52
                          2003:396830 CAPLUS
ACCESSION NUMBER:
                          138:385915
DOCUMENT NUMBER:
                          Method for producing (meth)acrylic
TITLE:
                          acid esters of polyhydric alcohols
                          Martin, Friedrich-Georg; Wartini, Alexander; Dernbach,
INVENTOR (S):
                          Matthias; Schroeder, Juergen; Sirch, Tilman
                          BASF Aktiengesellschaft, Germany
PATENT ASSIGNEE(S):
                          PCT Int. Appl., 41 pp.
SOURCE:
                          CODEN: PIXXD2
                          Patent
DOCUMENT TYPE:
                          German
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                     KIND DATE
                                            APPLICATION NO. DATE
     PATENT NO.
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                                             ______
                       ____
     _____
                                             WO 2002-EP12491 20021108
                             20030522
     WO 2003042151
                        A 1
     WO 2003042151
                       C1
                             20040624
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
              RU, TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
              CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
              PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
              NE, SN, TD, TG
                                             DE 2001-10156116 20011115
     DE 10156116
                        A1
                             20030626
                                          DE 2001-10156116 A 20011115
PRIORITY APPLN. INFO.:
                          MARPAT 138:385915
OTHER SOURCE(S):
      (Meth) acrylic acid esters of polyhydric
     alcs. are manufactured by reacting (meth)acrylic
     acid and the corresponding polyhydric alcs. in the
     presence of ≥1 acid catalyst and, optionally, ≥1 polymerization
     inhibitor and a solvent, whereby the polyhydric alc.
     contains <500 ppm HCHO. Thus, trimethylolpropane containing 282 ppm
     acetal-bound HCHO was esterified with acrylic acid in
     cyclohexane mixture containing p-MeOC6H4OH, H3PO2, CuCl2 and H2SO4 to give
     product having d. 1.1041 g/cm3 and dynamic viscosity 85 mPa·s
      (23°), vs. d. 1.1153 g/cm3 and dynamic viscosity 246 mPa·s
      for similar product prepared by use of trimethylolpropane containing
      1400 ppm of acetal-bound HCHO.
                                 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L16 ANSWER 5 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5 ACCESSION NUMBER:

2003:166982 CAPLUS

DOCUMENT NUMBER:

138:188258

TITLE: INVENTOR(S): Preparation of 2-phenylethyl (meth) acrylate Doi, Junichi; Sonobe, Hiroshi; Matsumoto, Satoshi

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L16 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6
                         2002:845303 CAPLUS
ACCESSION NUMBER:
                         137:338384
DOCUMENT NUMBER:
                         Esterification process for the
TITLE:
                        production of (meth) acrylate esters
                         Nestler, Gerhard; Geisendoerfer, Matthias
INVENTOR(S):
                         BASF AG, Germany
PATENT ASSIGNEE(S):
                         Ger. Offen., 12 pp.
SOURCE:
                         CODEN: GWXXBX
DOCUMENT TYPE:
                         Patent
                         German
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                           APPLICATION NO. DATE
     PATENT NO.
                      KIND DATE
                                           _____
                      ____
                                          /DE 2001-10154714 20011109
                            20021107
     DE 10154714
                       A1
                                          DE 2002-10246869 20021008
                            20030327
                       A1
     DE 10246869
                                       DE 2001-10154714 A1 20011109
PRIORITY APPLN. INFO.:
     The production of (meth) acrylate esters (e.g., 2-ethylhexyl acrylate) by is
     achieved by acid-catalyzed esterification of (meth)
     acrylic acids (e.g., acrylic acid) with the appropriate
     alc. (e.g., 2-ethylhexanol) in a homogeneous liquid phase in the
     presence of a polymerization inhibitor (e.g., phenothiazine) and/or an
     inhibitor mixture, one accomplishes the esterification
     (stage 1) in a reaction zone, which is equipped with at least one distillation
     unit, over which one separates the reaction water as well as olefins,
     alc., acetic acid esters and propionic acid ester, formed with the
     esterification, condensed and in an aqueous and an organic phase are
     separated, the discharge from the reaction zone from stage 1 is lead into a
     catalyst separation stage (stage 2) and into a esterification
     -catalyzed bottoms product and the (meth) acrylate esters head product is
     separated, from this (meth) acrylate ester-containing head product in a
following
     stage the remaining (meth) acrylate ester-containing stream/current is separated
     into a light-boiling fraction (stage 4) and the (meth) acrylate ester
     exsentially freed of acetic acid ester and output alc. recycled,
    from the released acetic acid ester and output alc. the
      (meth) acrylate ester made from stage 4 in a pure distillation (stage
     6) separates from the high-boiling solvents and the high-boiling
     solvent-containing stream is subjected to a thermal and/or catalytic
     treatment.
L16 ANSWER 8 OF 52 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 7
                         2002:403632 CAPLUS
ACCESSION NUMBER:
                         136:402195
DOCUMENT NUMBER:
                         Transesterification process for
TITLE:
                         the production of higher alkyl (meth)acrylate esters
                         from lower-alkyl (meth) acrylate esters
                         Nestler, Gerhard; Rauh, Ulrich; Schroeder, Juergen
INVENTOR(S):
                         BASF AG, Germany
PATENT ASSIGNEE(S):
                         Ger. Offen., 12 pp.
 SOURCE:
                         CODEN: GWXXBX
DOCUMENT TYPE:
                         Patent.
                         German
LANGUAGE:
FAMILY ACC. NUM. COUNT:
 PATENT INFORMATION:
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KIND DATE

PATENT NO.

APPLICATION NO. DATE